

WATER REPELLENT TEXTILE FINISHES AND METHOD OF MAKING

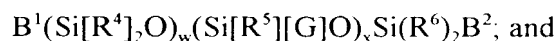
ABSTRACT OF THE DISCLOSURE

A composition is disclosed that comprises:

- 1) a compound of the formula:

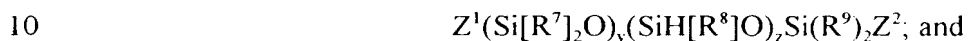


- 2) a compound of the formula:

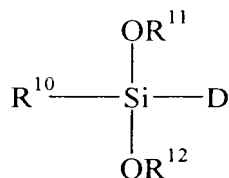


- 3) a crosslinker selected from the group consisting of:

- a) compounds of the formula:



- b) compounds of the formula:



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wherein

$\text{R}^1, \text{R}^2, \text{R}^3, \text{R}^4, \text{R}^5, \text{R}^6, \text{R}^7, \text{R}^8$, and R^9 are independently selected from the group consisting of alkyl groups of from 1 to 4 carbon atoms;

E is a monovalent organic group comprising at least one epoxy group;

20 A^1 and A^2 are independently selected from the group consisting of alkyl groups of from 1 to 4 carbon atoms and monovalent organic groups comprising at least one epoxy group;

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u is an integer from 1 to about 2000;

v is an integer from 0 to about 200;

25 the sum of u and v is from 1 to about 2200;

G is selected from the group consisting of hydroxy and alkoxy;

B¹ and B² are independently selected from the group consisting of alkyl groups of from 1 to 4 carbon atoms, hydroxy, and alkoxy;

w is an integer from 1 to about 1000;

30 x is an integer from 0 to about 50;

the sum of w and x is from 1 to about 1050;

Z¹ and Z² are independently selected from the group consisting of hydrogen and alkyl groups of from 1 to 4 carbon atoms;

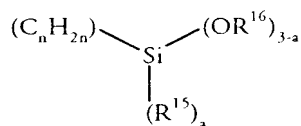
y is from 1 to about 1000;

35 z is from 0 to about 2000;

the sum of y and z is from 1 to about 3000;

D is selected from the group consisting of hydrogen, substituted or unsubstituted C₁-C₁₂ hydrocarbon moieties, OR¹⁴, and moieties of the formula:

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R¹⁰ and R¹⁵ are independently selected from the group consisting of hydrogen, substituted or unsubstituted C₁-C₁₂ hydrocarbon moieties, and OR¹³;

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R^{11} , R^{12} , R^{13} , R^{14} , and R^{16} are independently selected from the group consisting of C_1 - C_6 hydrocarbon moieties;

n is 1, 2, or 3; and

a is 0, 1, or 2.